

# **EXHIBIT 7**

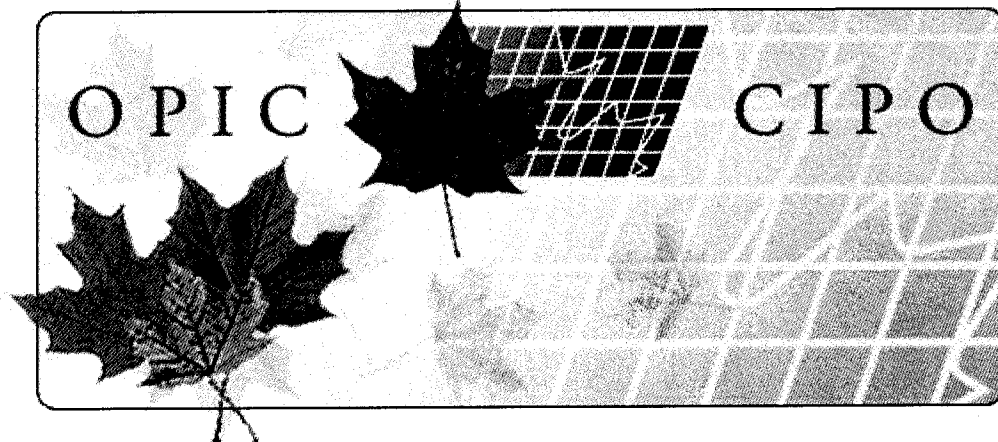


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(12) **Patent:**

Application Number:

(11) **CA 1141177**

(21) **362692**

(54) GANG MOWER WITH SINGLE CYLINDER LIFTING MECHANISM

(54) TONDEUSE SERIEES A MECANISMES DE RELEVAGE COMMUN

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### ABSTRACT:

#### ABSTRACT OF THE DISCLOSURE

A gang mower typically having five or seven gangs which are raised and lowered by a single piston and cylinder. Lifting arms are fixed to an actuating shaft at each side of the machine and the piston and cylinder are connected between opposed lifting arms to rotate them in opposite directions. An equalizer link connected by cranks to the actuating shafts ensures that the shafts always rotate to equal extents in opposite directions.

Chains are connected from the lifting arms to the mowers, the chains and lifting arms being dimensioned so that lifting occurs sequentially, with some of the mowers being lifted before others. The sequential lifting spreads the load more evenly throughout the lifting sequence, thereby permitting a single piston and cylinder to lift all of the mowers.

CLAIMS: [Show all claims](#)

\*\*\* Note: Data on abstracts and claims is shown in the official language in which it was submitted.

(72) [Inventors](#) (Country): **ARNOLD, WILLIAM T.** (Canada)

(73) [Owners](#) (Country): **BROUWER TURF EQUIPMENT LIMITED** (Not Available)

(71) [Applicants](#) (Country):

(74) [Agent](#): **BERESKIN & PARR**

(45) [Issued](#): **Feb. 15, 1983**

(22) [Filed](#): **Oct. 17, 1980**

(41) [Open to Public](#)  
[Inspection](#):



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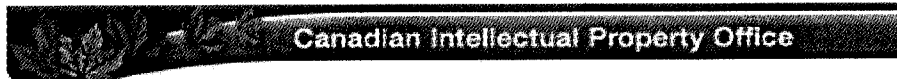
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(52) Canadian Class (CPC): **56/1 97/125 56/65**  
(51) International Class (IPC): **A01D 75/30**(2006.01)

Patent Cooperation Treaty (PCT): **No**

(30) Application priority data: **None**

Availability of licence: **N/A**

Language of filing: **English**

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1141177

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This invention relates to a power-driven gang mower, in which a number of individual mowers are mounted on and powered from a main frame.

Power-driven gang mowers may include a main frame which is supported on its own wheels and which is pulled by a tractor. A number of individual mowers are normally connected to the frame and are driven by a drive mechanism which is mounted on the frame and which is in turn driven from the tractor. The mowers are lowered when in use, but when they are not in use, they normally must be lifted so that the gang mower can be driven along roads and through narrow openings such as gates, and so that the mowers will not be damaged by stones and the like. Examples of gang mowers in which the mowers may be lifted are shown in U.S. patents 2,104,719 and 2,764,854, and in U.S. patent 4,161,858 assigned to the assignee of this application.

In the past, the operator of a gang mower has commonly had to lift the mowers manually. This has been a difficult and time-consuming procedure. Therefore attempts have been made to construct gang mowers with power-lifting devices. However so far as is known, such prior attempts have required separate lifting cylinders for each pair of mowers and have been constructed so that lifting of the mowers on each side of the unit is uneven. Such prior attempts have not so far as is known been widely accepted.

It is therefore an object of the present invention

